

**DEPARTMENT OF TRANSPORTATION**

DIVISION OF ENGINEERING SERVICES

OFFICE ENGINEER

1727 30<sup>th</sup> Street MS-43

P.O. BOX 168041

SACRAMENTO, CA 95816-8041

FAX (916) 227-6214

TTY 711

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April 13, 2012

04-Ala-80-2.5/3.3

04-292264

Project ID 0400000785

ER-15A3(004)E

Addendum No. 1

Dear Contractor:

This addendum is being issued to the contract for CONSTRUCTION ON STATE HIGHWAY IN ALAMEDA COUNTY IN OAKLAND AND EMERYVILLE FROM MARITIME STREET/BURMA ROAD INTERSECTION TO 0.4 MILE NORTH OF 40TH STREET/HUBBARD STREET INTERSECTION.

Submit bids for this work with the understanding and full consideration of this addendum. The revisions declared in this addendum are an essential part of the contract.

Bids for this work will be opened on Tuesday, May 1, 2012.

This addendum is being issued to revise the Project Plans, the Notice to Bidders and Special Provisions, and the Bid book.

Project Plan Sheets 2, 3, 4, 6, 21, 32, 33, 38, 43, 45, 53, 54, 55, 56, 57, 60, 71, 72, 73, 74, 75, 76, 77, 78, and 115 are revised. Copies of the revised sheets are attached for substitution for the like-numbered sheets.

Project Plan Sheets 176A, 176B, 176C, 176D, and 176E are added. Copies of the added sheets are attached for addition to the project plans.

In the Special Provisions, Section 5-1.105, "BIRD PROTECTION," is added as attached.

In the Special Provisions, Section 10-1.01, "ORDER OF WORK, the following paragraphs are added after the third paragraph:

"Prior to August 31st, 2012, no work is allowed on "A" Line at Drainage Systems, 2, 3, and 5 shown on Drainage Plan Sheets D-1 and D-2.

Prior to November 30th, 2012, no work is allowed on "A" Line between Sta. "A" 25+00 and Sta. "A" 27+77 shown on Utility Plan Sheet, U-2.

If vegetation removal must occur between February 1 and August 31 all sites shall be surveyed by a Department supplied biologist to verify the presence or absence of nesting birds not more than three days prior to the start of that work. The Contractor will notify the Department 15 working days before the start of any vegetation removal.

Full compensation for any delays or stoppage of work to the Contractor's operations due to discovery of bird nesting regardless of the number of occurrences, including inefficiencies and loss of productivity, shall be considered as included in the prices paid for the various contract items of work and no additional compensation will be allowed therefor."

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In the Special Provisions, Section 10-1.28, "MATERIAL CONTAINING CHEMICALS OF CONCERN," is revised as attached.

In the Special Provisions, Section 10-1.285, "CERTIFICATION OF CLEAN IMPORTED FILL MATERIAL," is added as attached.

In the Bid book, in the "Bid Item List," Items 28, 31, 32, 64, 65, 66, 80, 81, 82, 94, 107 are revised, Items 118, 119, 120, 121, 122 are added and Item 117 is deleted as attached.

To Bid book holders:

Replace pages 4, 6, 7, 8 and 9 of the "Bid Item List" in the Bid book with the attached revised pages 4, 6, 7, 8 and 9 of the Bid Item List. The revised Bid Item List is to be used in the bid.

Inquiries or questions in regard to this addendum must be communicated as a bidder inquiry and must be made as noted in the Notice to Bidders section of the Notice to Bidders and Special Provisions.

Indicate receipt of this addendum by filling in the number of this addendum in the space provided on the signature page of the Bid book.

Submit bids in the Bid book you now possess. Holders who have already mailed their book will be contacted to arrange for the return of their book.

Inform subcontractors and suppliers as necessary.

This addendum and attachments are available for the Contractors' download on the Web site:

**[http://www.dot.ca.gov/hq/esc/oe/project\\_ads\\_addenda/04/04-292264](http://www.dot.ca.gov/hq/esc/oe/project_ads_addenda/04/04-292264)**

If you are not a Bid book holder, but request a book to bid on this project, you must comply with the requirements of this letter before submitting your bid.

Sincerely,



REBECCA D. HARNAGEL  
Chief, Office of Plans, Specifications & Estimates  
Office Engineer  
Division of Engineering Services

Attachments

#### 5-1.105 BIRD PROTECTION

The Department anticipates nesting or attempted nesting by migratory and nongame birds from February 1 to August 31.

Stop all work within a 100-foot radius of the discovery except as specified in the following table:

Radii Exceptions	
Species	Work stoppage radii (feet)
Migratory and Non-Game Birds	100 feet
Raptors	300 feet
Owls	300 feet



## 10-1.28 MATERIAL CONTAINING CHEMICALS OF CONCERN

### GENERAL

#### Summary

This work includes earthwork involving surface soil containing the chemicals of concern described in "Chemicals of Concern," of these special provisions. Comply with Section 19, "Earthwork" of the Standard Specifications.

#### Definitions

**aerially deposited lead (ADL):** Lead primarily from vehicle emissions deposited within unpaved areas or formerly unpaved areas.

**anthropogenic:** Caused by man.

**ballast:** A mixture of crushed rock or other granular material, having a gradation such that all of the material passes the 3-inch sieve and less than 60% of the material passes the 1/2-inch sieve, which is designed to support the rail, cross ties, and other track materials used for a railroad.

**Cal-hazardous waste:** Waste material that exhibits the characteristics of a hazardous waste as defined by 22 CCR Chapter 11, "Identification and Listing of Hazardous Waste," but does not exhibit the characteristics of a RCRA-hazardous waste as defined by 40 CFR §261 Subpart B.

**chemicals of concern:** Chemicals or elements that are hazardous material or potentially hazardous material.

**completed manifest:** A manifest that has been completed in accordance with DTSC's Supplemental California Manifest Instructions and that has been signed by authorized representatives of the generator, transporter, and the disposal facility.

**(Class 1) (Type Barbary) material:** Cal-hazardous waste produced from roadway, structure, or other excavation work within the limits of the former Barbary Coast Steel site that must be transported to a landfill permitted to accept Cal-hazardous waste; that is, a Class 1 landfill.

**(Class 1) (Type CT) material:** Cal-hazardous waste produced from roadway, structure, or other excavation work within the State's right of way that does not originate from the former Oakland Army Base, the former Barbary Coast Steel site, the Shellmound Street embankment, or from the IKEA property that must be transported to a landfill permitted to accept Cal-hazardous waste; that is, a class 1 landfill.

**(Class 1) (Type Emeryville) material:** Cal-hazardous waste produced from roadway, structure, or other excavation work within the Shellmound Street embankment that belongs to the city of Emeryville and that must be transported to a landfill permitted to accept Cal-hazardous waste; that is, a Class 1 landfill.

**(Class 2) (Type CT) material:** Non-RCRA non-Cal-hazardous waste produced from roadway, structure, or other excavation work within the State's right of way; that does not originate from the former Oakland Army Base, the former Barbary Coast Steel site, the Shellmound Street embankment, or from the IKEA property; that contains chemicals of concern that must be transported to a Class 2 or a Class 1 landfill.

**(Class 2) (Type OARB) material:** Non-RCRA non-Cal-hazardous waste produced from roadway, structure, or other excavation work within the former Oakland Army Base (OARB) that contains chemicals of concern that must be transported to a Class 2 or a Class 1 landfill.

**(Class RCRA) (Type Barbary) material:** RCRA-hazardous waste produced from roadway, structure, or other excavation work within the former Barbary Coast Steel site that contains chemicals of concern that must be transported to a landfill permitted to accept RCRA-hazardous waste.

**(Class R) (Type OARB) Material:** Clean and contaminated ballast within the limits of the former Oakland Army Base that must be transported to the designated ballast recycling area on the former Oakland Army Base.

**hazardous material:** A substance or waste that, because of its physical, chemical, or other characteristics, may pose a risk of endangering human health or safety or of degrading the environment. Hazardous material includes, but is not limited to, all of the following:

1. A hazardous substance, as defined in Health & Safety Code §25281 or §25316
2. A hazardous waste, as defined in Health & Safety Code §25117

**naturally occurring metal (NOM):** Metal that is inherent to the surface soil at the job site that cannot be attributed to the activities of man.

**RCRA-hazardous waste:** Waste material that exhibits the characteristic of a hazardous waste as defined by the federal Resource Conservation and Recovery Act (RCRA), see 40 CFR §261 Subpart B.

**remediation excavation:** Removal of surface soil containing chemicals of concern that is required to ensure the protection of human health and the environment.

**subballast:** The layer of engineered material located between railroad ballast and the basement material.

**surface soil:** The original ground material consisting of the existing ground surface and shallow soils.

#### **Submittals**

Submit the following deliverables to the Engineer:

1. Hazardous Material Management Plan
2. Completed Manifest(s)
3. Disposal facility's certified weight measurements
4. Hazardous Material Management Report – Former Oakland Army Base
5. Hazardous Material Management Report – Western B-Line
6. Hazardous Material Management Report – Former Barbary Coast Steel/Eastern B-Line
7. Hazardous Material Management Report – Shellmound Street Embankment

#### **Hazardous Material Management Plan**

This work includes preparing, editing, and delivery of a written hazardous material management plan in hard copy and in electronic format. The plan must describe the process and procedures you will use to comply with the applicable or relevant and appropriate requirements for excavating, stockpiling, sampling, laboratory analysis, transporting, placing (or disposing), and permanent covering of material containing chemicals of concern.

The hazardous material management plan must incorporate the applicable requirements of Section 7, "Construction Risk Management Measures," of the Final Risk Management Plan, Oakland Army Base, Oakland, California, dated September 27, 2002.

Submit 1 hard copy and 1 electronic copy of the hazardous material management plan to the Engineer and the Department of Toxic Substances Control (DTSC) for review and approval at least 30 days prior to beginning work in areas containing the chemicals of concern described in these special provisions, described in the "Information Handout" or shown on the plans.

Submit the hazardous material management plan to the DTSC at the following address:

Task Order Manager for Cypress Bike Path Project  
DTSC Site Code 201850/11  
C/O Department of Toxic Substances Control  
Northern California Coastal Cleanup Operations Branch  
700 Heinz Ave., Suite 200  
Berkeley, CA 94710

The DTSC will notify you of approval or rejection of the submitted or revised hazardous material management plan not more than 30 days after submittal.

The Engineer will have 30 days to review the plan. If revisions are required, as determined by the Engineer, revise and resubmit the plan within 7 days of receipt of the Engineer's comments. The Engineer will have 7 days to review the revisions. Minor changes to or clarifications of the initial submittal may be made and attached as amendments to the hazardous material management plan. In order to allow construction to proceed, the Engineer may conditionally approve the plan while minor revisions or amendments are being completed.

The hazardous material management plan must contain the following elements:

1. General site information and location map showing excavation areas
2. Excavation schedule (by location and date)
3. Temporary locations of stockpiled material
4. Dust control measures
5. Transportation equipment and routes
6. Method for preventing spills and tracking material onto public roads



7. Truck waiting and staging areas
8. Site for disposal of hazardous and non-hazardous waste
9. Draft of the completed waste manifest(s)
10. Spill Contingency Plan for material containing the chemicals of concern
11. Source of clean imported fill material
12. Analytical data for clean imported fill material

Provide 3 hard copies and one electronic copy of the approved hazardous material management plan to the Engineer. Electronic submittals of the hazardous material management plan must be in searchable Adobe Acrobat® (.pdf) format and must contain the entire contents of the written hazardous material management plan.

#### **Hazardous Material Management Report**

This work includes preparing, editing, and delivery of a written hazardous material management report in hard copy and in electronic format. The hazardous material management report shall consist of preparing a detailed written report that documents the implementation of the site-specific hazardous material management plan.

The hazardous material management report consists of 4 separate submittals; one submittal for each of the following areas of contamination within the project limits:

1. Former Oakland Army Base
2. Western B-Line
3. Former Barbary Coast Steel Site/Eastern B-Line
4. Shellmound Street Embankment

The hazardous material management report for the Former Oakland Army Base must report on the hazardous-material work that occurs within the limits of the Former Oakland Army Base. The limits of the base are shown within the Final Risk Management Plan for the Former Oakland Army Base.

The hazardous material management report for the Former Oakland Army Base must comply with Section 5.1.4, "Completion Reports," of the Final Risk Management Plan for the former Oakland Army Base.

The hazardous material management report for the Former Barbary Coast Steel Site/Eastern B-Line must report on the hazardous-material work that occurs within the limits of the Former Barbary Coast Steel Site. The limits of the former Barbary Coast Steel Site are shown on the Plans.

The hazardous material management report for the Shellmound Street Embankment must report on the hazardous-material work that occurs within the limits of the Shellmound Street Embankment. The Shellmound Street Embankment includes the area underneath the 40<sup>th</sup> Street Overcrossing.

The hazardous material management report for the Western B-Line must report on the hazardous-material work from B-Line Station 103+53 to 143+50 and from AB-Line 101+60 to 104+69.

The hazardous material management report must at a minimum include, but not be limited to, the following items: background, site description, site location map, plan sheets (indicating areas of excavation), summary of soil and groundwater removal actions, and a waste-disposal summary table.

The waste-disposal summary table must indicate the total quantity, character, and final destination of all the various classes and types of waste material generated by this project. The report must list the manifest numbers for each type and class of waste material.

Include copies of the completed manifests in the hazardous materials management report.

Include copies of the disposal facility's certified weight measurements for each load of waste material in the hazardous materials management report.

Include a copy of the signed "Certificate of Compliance" for the clean imported fill material in the hazardous material management report.

Three draft copies of each hazardous material management report must be submitted to the Engineer for approval. The Contractor must submit these draft copies within 30 days after the last of the waste material has been transported off the site. The Contractor must amend the hazardous material management report as needed to address the Engineer's comments. Five copies of the final hazardous material management report must be submitted to the Engineer.

The final hazardous material management report must be signed and stamped by a civil engineer registered in the State of California. The Contractor must submit the final hazardous material management report to the Engineer within 21 days of receipt of the Engineer's comments on the draft hazardous material management report.



## CONSTRUCTION

Excavate, transport, and deposit material containing chemicals of concern; of the class and type shown on the plans or specified in these special provisions; to complete contract items of work in compliance with the approved hazardous material management plan and in compliance with the approved health and safety plan.

### Remediation Excavation

Excavate, transport, and dispose of remediation excavation material in accordance with the specifications for the class and type of material shown on the plans and described in these special provisions.

Survey the elevation of the original ground surface before performing remediation excavation. Survey the elevation of the bottom of the remediation excavation to document the proper remediation excavation depth. Provide pre- and post-survey results to the Engineer.

After the Engineer has inspected and approved the remediation excavation work, place clean imported fill material within the remediation excavation to bring the grade back to the original-ground-surface elevation. Comply with Section 19-7.02, "Imported Borrow," of the Standard Specifications and Certification of Clean Imported Fill Material of these special provisions.

### Material Containing Naturally Occurring Metal

Naturally occurring metal (NOM), such as arsenic and vanadium, are present within the surface soil at the project site in concentrations that exceed the San Francisco Bay Regional Water Quality Control Board's environmental screening levels (ESLs) for shallow soils where groundwater is a current or potential source of drinking water.

Material containing NOM may also contain lead at average concentrations that are less than 80 mg/kg.

Excavate, transport, and deposit material containing naturally occurring metal to complete contract items of work in compliance with the approved hazardous material management plan.

The use of surplus soil containing naturally occurring metal at an off-site location may not be appropriate if background concentrations of corresponding elements at the receiving site are substantially lower than those of the site of origin. Disclose material analysis results to property owners before making agreements for disposal. Obtain written authorization from the property owner that includes acknowledgment of receipt of the analysis results and agreement that the material is acceptable. Regard commercial landfill operators as property owners. Disposal must comply with Section 7-1.13, "Disposal of Material Outside the Highway Right of Way," of the Standard Specifications.

### (Class 2) (Type CT) Material

(Class 2) (Type CT) material exists as described in this section and as shown on the plans. Remove (Class 2) (Type CT) material from the job site and deposit it at a landfill permitted to accept Class 1 or Class 2 waste. Do not mix this waste material with any other class or type of waste material. Keep records of the total quantity of (Class 2) (Type CT) material excavated, transported, and deposited at a landfill.

(Class 2) (Type CT) material includes material containing chemicals of concern displaced by new drainage units within the following drainage systems: 4.

Place the following information on the non-hazardous-waste manifest.

#### (Class 2) (Type CT) Material

Generator's Name and Mailing Address	Generator's Site Address (If different than mailing address)
Caltrans District 4 Construction	Alameda Route 80 from P.M. 2.5 to 3.1
111 Grand Ave P.O. Box 23660.	Maritime St to Shellmound St Bikeway EA 04-292263
Oakland, CA 94623-0660	Oakland, CA
Phone No.: (510) 622-8750	

The Engineer will complete the Generator's/Offoror's certification of the non-hazardous-waste manifest. Submit manifest(s) for (Class 2) (Type CT) material to the Engineer for approval 14 days prior to disposal.

**(Class 1) (Type CT) Material**

(Class 1) (Type CT) material exists as described in this section and as shown on the plans. Remove (Class 1) (Type CT) material from the job site and deposit it at a landfill permitted to accept Cal-hazardous waste. Do not mix this waste material with any other class or type of waste material generated from this project. Keep records of the total quantity of (Class 1) (Type CT) material excavated, transported, and deposited at a landfill.

(Class 1) (Type CT) material includes material containing chemicals of concern displaced by new drainage units within the following drainage systems: 6 through 8.

(Class 1) (Type CT) material includes material containing chemicals of concern displaced by light-pole footings within the State's right of way from AB-line Station 101+60 to 104+69 and from B-line Station 103+53 to 143+50.

Place the following information in box 5 of the uniform hazardous-waste manifest.

**(Class 1) (Type CT) Material**

Generator's Name and Mailing Address	Generator's Site Address (If different than mailing address)
Caltrans District 4 Construction	Alameda Route 80 from P.M. 2.5 to 3.1
111 Grand Ave P.O. Box 23660.	Maritime St to Shellmound St Bikeway EA 04-292263
Oakland, CA 94623-0660	Oakland, CA
Phone No.: (510) 622-8750	

The Engineer will complete the Generator's/Offorer's Certification in box 15 of the uniform hazardous-waste manifest. Submit manifest(s) for (Class 1) (Type CT) material to the Engineer for approval 14 days prior to disposal.

**(Class 1) (Type Barbary) Material**

(Class 1) (Type Barbary) material exists as described in this section and as shown on the plans. Remove (Class 1) (Type Barbary) material from the job site and deposit it at a landfill permitted to accept Cal-hazardous waste. Do not mix this waste material with any other class or type of waste material generated from this project. Keep records of the total quantity of (Class 1) (Type Barbary) material excavated, transported, and deposited at a landfill.

(Class 1) (Type Barbary) material includes material containing chemicals of concern displaced by new drainage units within the following drainage systems: 9 through 11.

(Class 1) (Type Barbary) material includes material containing chemicals of concern displaced by new drainage unit 12e.

(Class 1) (Type Barbary) material includes material containing chemicals of concern displaced by light-pole footings within the State's right of way from B-line Station 143+50 to 154+76, from ST-line Station 154+76 to 156+52, and from C-line Station 10+00 to 10+86.

(Class 1) (Type Barbary) material includes material containing chemicals of concern displaced by the new concrete barrier from 43 feet left of B-line Station 147+74.55 to 31.78 feet left B-line Station 152+90.

Place the following information in box 5 of the uniform hazardous-waste manifest.

**(Class 1) (Type Barbary) Material**

Generator's Name and Mailing Address	Generator's Site Address (If different than mailing address)
Caltrans District 4 Construction	Alameda Route 80 from P.M. 3.1 to 3.3
111 Grand Ave P.O. Box 23660.	Former Barbary Coast Steel Site EA 04-292263
Oakland, CA 94623-0660	Oakland, CA
Phone No.: (510) 622-8750	

The Engineer will complete the Generator's/Offorer's Certification in box 15 of the uniform hazardous-waste manifest. Submit manifest(s) for (Class 1) (Type Barbary) material to the Engineer for approval 14 days prior to disposal.



**(Class RCRA) (Type Barbary) Material**

(Class RCRA) (Type Barbary) material exists as described in this section and as shown on the plans. Remove (Class RCRA) (Type Barbary) material from the job site and deposit it at a landfill permitted to accept RCRA-hazardous waste. Do not mix this waste material with any other class or type of waste material generated from this project. Keep records of the total quantity of (Class RCRA) (Type Barbary) material excavated, transported, and deposited at a landfill.

(Class RCRA) (Type Barbary) material includes material containing chemicals of concern displaced by the following new drainage units within the former Barbary Coast Steel site: 12a, 12b, 12c, and 12d.

Place the following information in box 5 of the uniform hazardous-waste manifest.

**(Class RCRA) (Type Barbary) Material**

Generator's Name and Mailing Address	Generator's Site Address (If different than mailing address)
Caltrans District 4 Construction	Alameda Route 80 from P.M. 3.1 to 3.3
111 Grand Ave P.O. Box 23660.	Former Barbary Coast Steel Site EA 04-292263
Oakland, CA 94623-0660	Oakland, CA
Phone No.: (510) 622-8750	

The Engineer will complete the Generator's/Officer's Certification in box 15 of the uniform hazardous-waste manifest. Submit manifest(s) for (Class RCRA) (Type Barbary) material to the Engineer for approval 14 days prior to disposal.

**(Class 1) (Type Emeryville) Material**

(Class 1) (Type Emeryville) material exists as described in this section and as shown on the plans. Remove (Class 1) (Type Emeryville) material from the job site and deposit it at a landfill permitted to accept Cal-hazardous waste. Do not mix this waste material with any other class or type of waste material generated from this project. Keep records of the total quantity of (Class 1) (Type Emeryville) material excavated, transported, and deposited at a landfill.

(Class 1) (Type Emeryville) material includes material containing chemicals of concern displaced by new drainage units within drainage system 13.

(Class 1) (Type Emeryville) material includes material containing chemicals of concern displaced by light-pole footings and fence-post footings within the city of Emeryville's right of way from C-line station 10+86 to 15+99.

Place the following information in box 5 of the uniform hazardous-waste manifest.

**(Class 1) (Type Emeryville) Material**

Generator's Name and Mailing Address	Generator's Site Address (If different than mailing address)
City of Emeryville	Shellmound Street near IKEA
1333 Park Ave.	West Abutment to 40 <sup>th</sup> St Overcrossing
Emeryville, CA 94608	Emeryville, CA 94608
Phone No.: (510) 596-4330	

The public works director for the city of Emeryville will complete the Generator's/Officer's Certification in box 15 of the uniform hazardous-waste manifest. Submit manifest(s) for (Class 1) (Type Emeryville) material to Emeryville's public works director for approval 30 days prior to disposal. Emeryville's public works director may be reached at (510) 596-4334.

**(Class 2) (Type OARB) Material**

(Class 2) (Type OARB) material exists as described in this section and as shown on the plans. Remove (Class 2) (Type OARB) material from the job site and deposit it at a landfill permitted to accept Class 2 or Class 1 waste. Do not mix this waste material with any other class or type of waste material. Keep records of the total quantity of (Class 2) (Type OARB) material excavated, transported, and deposited at a landfill.

(Class 2) (Type OARB) material includes material containing chemicals of concern displaced by new drainage units within the following drainage systems: 1, 2, 3, and 5.

(Class 2) (Type OARB) material includes a 1-foot-deep layer of subballast located within the unpaved portion of the 20-foot-wide bike-path-permanent-easement area from A-line Station 19+50 to 22+52.30.

(Class 2) (Type OARB) material includes material containing chemicals of concern displaced by light-pole footings and fence-post footings constructed within the limits of the former Oakland Army Base from A-line Station 18+80 to 27+77.20 and from AB-line Station 100+00 to 101+69.34.

Place the following information on the non-hazardous-waste manifest.

**(Class 2) (Type OARB) Material**

Generator's Name and Mailing Address:	Generator's Site Address (If different than mailing address)
Caltrans District 4 Construction	Former Oakland Army Base
111 Grand Ave P.O. Box 23660.	Alameda Route 880 PM 34.1/ (EA 04-292263) Burma Rd. at Maritime St.
Oakland, CA 94623-0660	Oakland, CA
Phone No.: (510) 622-8750	

The Engineer will complete the Generator's/Officer's certification of the non-hazardous-waste manifest. Submit manifest(s) for (Class 2) (Type OARB) material to the Engineer for approval 14 days prior to disposal.

**(Class R) (Type OARB) Material**

(Class R) (Type OARB) exists as shown on the plans. Remove (Class R) (Type OARB) material from the jobsite and transport to the former Oakland Army Base's Building No. 1 site (ballast storage area). The location of the ballast storage area site is shown in the Information Handout. At the ballast storage area, stockpile clean ballast separately from ballast with observable petroleum-hydrocarbon contamination. The Engineer will provide a field inspector to determine whether ballast is clean or contaminated.

Install temporary fencing around the perimeter of the temporary construction easement area on the former Oakland Army Base before and during the removal of (Class R) (Type OARB) material. After removing the (Class R) (Type OARB) material, provide and maintain the temporary fencing around the ballast-removal area for a period of 60 days in order to permit others to perform soil-sampling work. During this 60-day period, the ballast removal area outside of the 20-foot-wide bike-path-permanent-easement area will not be available for the Contractor's use.

Do not mix (Class R) (Type OARB) material with any other class or type of waste material. Keep records of the total quantity of (Class R) (Type OARB) material excavated, transported, and deposited at the ballast storage area.

**Dust Control**

Apply water to control dust at all times while performing clearing and grubbing and earthwork operations in work areas containing chemicals of concern. Water application must comply with Section 17, "Watering," of the Standard Specifications. Do not allow visible dust migration during excavation, transportation, stockpiling, and handling of material containing chemicals of concern.

**Stockpiling**

Stockpiles of material containing chemicals of concern must not be placed in environmentally sensitive areas.

Stockpiles of material containing chemicals of concern must be stored on a 60-mil-minimum-thickness, waterproof, high-density-polyethylene plastic sheeting or an equivalent impermeable barrier.

Stockpiles of material containing chemicals of concern must be covered with 13-mil minimum thickness, waterproof, high-density-polyethylene plastic sheeting. When more than one sheet is required to cover the material, the sheets must be overlapped a minimum of 2 feet in a manner that prevents water from flowing onto the material. The cover shall be secured in a manner that keeps it in place at all times.



### **Transportation**

Prior to traveling on public roads, remove loose and extraneous material from surfaces outside the cargo areas of the transporting vehicles and cover the cargo with tarpaulins or other cover, as outlined in the approved hazardous material management plan. You are responsible for costs due to spillage of material containing chemicals of concern during transport.

### **Generator Liability**

The Department will not consider the Contractor a generator of the hazardous material, and the Contractor will not be obligated for further cleanup, removal, or remedial action for such material handled or disposed of in conformance with the requirements specified in these special provisions and the appropriate State and Federal laws and regulations and county and municipal ordinances and regulations regarding hazardous waste.

### **Soil Sampling and Analysis**

If the concentrations of the contaminant(s) of concern are not known prior to removing waste material from within the project limits or if additional data is required to profile the waste for disposal then sample and analyze the waste material.

Include the sampling and analytical plan within the hazardous materials management plan. Submit the sampling and analysis plan and the name of the analytical laboratory to the Engineer at least 15 days prior to beginning sampling or analysis.

Use an analytical laboratory that is certified by California Department of Public Health's Environmental Laboratory Accreditation (ELAP) Program.

The sampling and analysis portions of the hazardous material management plan must incorporate the requirements for the design and development of the sampling plan, statistical analysis, and reporting of test results contained in USEPA, SW 846, "Test Methods for Evaluating Solid Waste," Volume II: Field Manual Physical/Chemical, Chapter Nine, Section 9.1.

### **Disposal**

Deposit waste material at an appropriately permitted landfill.

The person responsible for completing box 15, "Generator's/Officer's Certification," of the uniform hazardous waste manifest will provide the Environmental Protection Agency's Generator Identification Number(s) for hazardous waste disposal.

All types of Class 1 and Class RCRA waste material generated by this project are exempt from the California Board of Equalization's land-disposal fees. The Contractor must request a letter of exemption from the Engineer at least 15 days before transporting Class 1 material to a disposal facility.

### **MEASUREMENT AND PAYMENT**

No separate payment for stockpiling of material containing chemicals of concern will be made, unless the stockpiling is ordered by the Engineer.

The Department does not pay for sampling, analyzing, transporting, and disposing of material containing chemicals of concern that is excavated from outside the pay limits of excavation.

### **Hazardous Material Management Plan**

The contract lump sum price paid for hazardous material management plan includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in hazardous material management plan, complete in place, as specified in these special provisions, and as directed by the Engineer.

### **Remediation Excavation**

Quantities of earthwork containing anthropogenic chemicals of concern to be paid for as remediation excavation will be measured by the cubic yard. The total quantity of remediation excavation will be computed by means of average areas and distances between these areas determined from measurements of the remediation-excavation areas before and after removal of remediation excavation material of the class and type shown on the plans or specified in these special provisions. Where due to changed conditions or the nature of a particular operation or for any other reason, it is impossible or impractical to measure quantities for remediation excavation by means of average areas, the Engineer will compute the quantities of material excavated by a method which in the Engineer's opinion is best suited to obtain an accurate determination.



Full compensation for surveying, excavating, sampling, sample analysis, data analysis and reporting, loading, hauling, and disposing of material containing chemicals of concern is included in the contract price paid per cubic yard for remediation excavation, of the class and type shown in the Engineer's Estimate, and no additional compensation will be allowed therefor.

#### **Roadway Excavation and Structure Excavation**

Quantities of earthwork containing chemicals of concern to be paid for as roadway excavation and structure excavation, that are not otherwise specified by class or type, will be measured and paid for in the same manner specified for roadway excavation and structure excavation, respectively, in Section 19, "Earthwork," of the Standard Specifications.

Full compensation for excavating, transporting, stockpiling, sampling, laboratory analyses, data analysis and reporting, waste profiling, and onsite reuse or off-site disposal of material containing chemicals of concern, that are not otherwise specified by class or type, is included in the contract prices paid per cubic yard for the items of roadway excavation and structure excavation involved, and no additional compensation will be allowed therefor.

Quantities of earthwork containing chemicals of concern to be paid for as roadway excavation and structure excavation, of the class and type shown in the Engineer's Estimate, will be measured and paid for in the same manner specified for roadway excavation and structure excavation, respectively, in Section 19, "Earthwork," of the Standard Specifications.

Quantities for earthwork containing chemicals of concern to be paid for as structure excavation (light pole footing) will be measured by the cubic yard. Quantities of structure excavation (light pole footing) located inside a remediation-excavation area will be measured from the bottom of the remediation-excavation depth and not from the original ground surface. Quantities of structure excavation (light pole footing), of the disposal class and ownership type described in these special provisions, will be paid for by the cubic yard.

Full compensation for surveying, excavating, loading, hauling, stockpiling, sampling, laboratory analysis, data analysis and reporting, waste profiling, and landfill disposal of waste soil containing chemicals of concern generated by structure excavation (light pole excavation) of the class and type specified in these special provisions, is included in the contract price paid per cubic yard for structure excavation (light pole footing) and no separate payment will be made therefor.

Full compensation for excavating, loading, hauling, stockpiling, sampling, laboratory analyses, data analysis and reporting, waste profiling, and disposal of waste material is included in the contract prices paid per cubic yard for roadway excavation, and structure excavation, of the class and types shown in the Engineer's Estimate, and no additional compensation will be allowed therefor.

#### **Hazardous Material Management Report**

The contract lump sum price paid for hazardous material management report includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all the work involved in hazardous material management report, complete in place, as specified in these special provisions, and as directed by the Engineer.

#### **Drainage Work**

Full compensation for excavating, transporting, stockpiling, sampling, laboratory analyses, data analysis & reporting, waste profiling, and disposal of waste material of the class and types involved with the construction of drainage inlets is included in the contract price paid per cubic yard of minor concrete of the types shown on the plans and specified in these special provisions, and no additional compensation will be allowed therefor.

Full compensation for excavating, transporting, stockpiling, sampling, laboratory analyses, data analysis & reporting, waste profiling, and disposal of class RCRA, Class 1, and Class 2 material of the types involved with the installation of plastic pipe and reinforced concrete pipe is included in the contract price paid per linear foot of the types of pipe involved and no additional compensation will be allowed therefor.

Full compensation for excavating, transporting, stockpiling, sampling, laboratory analyses, data analysis & reporting, waste profiling, and disposal of waste material of the class and types involved in the construction of drainage ditches is included in the contract price paid per cubic yard for minor concrete (ditch lining), and no additional compensation will be allowed therefor.

#### **Barrier Rail**

Full compensation for excavating, transporting, stockpiling, sampling, laboratory analyses, data analysis & reporting, waste profiling, and disposal of waste material of the class and type involved with the construction of concrete barrier and barrier transitions is included in the contract price paid per linear foot for concrete barrier of the type shown on the plans and specified in these special provisions, and no additional compensation will be allowed therefor.



## 10-1.285 CERTIFICATION OF CLEAN IMPORTED FILL MATERIAL

### GENERAL

#### Summary

This work includes demonstrating that fill material imported to the job site, for the purpose of backfilling or covering an area of contamination under management by the California Environmental Protection Agency, is free of significant contamination. This work includes sampling, analyzing, evaluating potential fill material, preparing a written report, and providing a certificate of compliance.

#### Definitions

**clean imported fill material:** Imported borrow or imported topsoil that is safe to use in a residential area.

#### Submittals

Submit the following deliverables to the Engineer:

1. Notice of material to be used (CEM-3101)
2. Report containing the analytical data for the proposed clean imported fill
3. Certificate of compliance

Submit the notice of materials to be used, the report containing the analytical data, and the certificate of compliance to the Engineer for acceptance 30 days prior to the placement of any clean imported fill material. The Engineer will have 15 days to review and accept the submittals.

#### Quality Control and Assurance

Soil samples must be collected by, or under the supervision of, an environmental professional. Soil samples must be delivered to the laboratory within 24 hours of sampling using a chain-of-custody protocol. Comply with ASTM D 4840-99(2010), "Standard Guide for Sampling Chain-of-Custody Procedures." The report containing the analytical data for the clean imported fill material must be signed by an engineer or a geologist who is registered as a civil engineer or geologist, respectively, in the State.

Laboratories performing chemical analysis must be certified by the California Department of Health Services (CDHS) environmental laboratory accreditation program (ELAP). Provide copies of the laboratory analytical results for clean imported fill material to the Engineer.

The certificate of compliance must state the source(s) of the clean imported fill material and must comply with Section 6-1.07, "Certificates of Compliance," of the Standard Specifications.

Clean imported fill material must not contain any contamination that could result in the material being characterized as a hazardous waste as defined by 22 CCR §66261 and 40 CFR §261.

Clean imported fill material must not contain average contaminant concentrations that equal or exceed a residential risk-based screening level established by any one of the following agencies: 1) California Office of Environmental Health Hazard Assessment (OEHHA); 2) San Francisco Bay Regional Water Quality Control Board (RWQCB); 3) U.S. Environmental Protection Agency (EPA); except for the naturally occurring substances specifically exempted in this specification.

The soil within this project site is known to contain naturally occurring concentrations of some elements, such as arsenic and vanadium, which exceed environmental screening levels published by the San Francisco Bay Regional Water Quality Control Board. Clean imported fill material may contain naturally occurring arsenic and vanadium up to the maximum metal concentrations stated in the following table.

Maximum Naturally-Occurring-Metal Concentrations for Clean Imported Fill Material

Naturally Occurring Element	Maximum Average Concentration <sup>a</sup> (mg/kg)	Maximum Permissible Concentration (mg/kg)
Arsenic	5	14
Vanadium	46	77

<sup>a</sup> The Engineer will use the arithmetic mean to verify compliance with the maximum average concentration(s) shown in this table.

Comply with the Department of Toxic Substances Control's Information Advisory Clean Imported Fill Material dated October 2001. Sample and analyze the clean imported fill material source area for the contaminants of concern. Obtain the minimum number of samples based upon the recommended fill material sampling schedule specified in DTSC's Information Advisory Clean Imported Fill Material. The Information Advisory Clean Imported Fill Material is available at:

[http://www.dtsc.ca.gov/Schools/upload/SMP\\_FS\\_Cleanfill-Schools.pdf](http://www.dtsc.ca.gov/Schools/upload/SMP_FS_Cleanfill-Schools.pdf)

The Contractor must, at a minimum, perform the laboratory tests shown in the following table for each proposed source of clean imported fill material.

Analytical Tests for Certification of Clean Imported Fill Material

Target Compound	EPA Test Method
CAM-17 Metals <sup>a</sup>	6010B
California Waste Extraction Test (WET)	Not Applicable <sup>b,c</sup>
Toxicity Characteristic Leaching Procedure <sup>d</sup> (TCLP)	1311
Total Petroleum Hydrocarbons (Gasolines <sup>e</sup> )	8015 (Modified for gasoline-range organics)
Total Petroleum Hydrocarbons (Middle Distillates <sup>f</sup> )	8015 (Modified for middle distillates)
Total Petroleum Hydrocarbons (Residual Fuels <sup>g</sup> )	8015 (Modified for residual fuels)
Organochlorine Pesticides	8081B

<sup>a</sup> CAM-17 metals are those listed in 22 CCR §66261.24, Table II.

<sup>b</sup> The California WET is described in 22 CCR, Chapter 11, Appendix II.

<sup>c</sup> The WET will only be required on a sample if the total metal concentration is greater than 10 times the soluble threshold limit concentration (STLC) shown in 22 CCR, §66261.24, Table II.

<sup>d</sup> The TCLP will only be required on a sample if the total metal concentration is greater than 20 times the regulatory threshold level shown in 22 CCR, §66261.24, Table I.

<sup>e</sup> Gasolines are characterized as petroleum hydrocarbons that fall within the C<sub>6</sub> to C<sub>12</sub> carbon range.

<sup>f</sup> Middle distillates are characterized as petroleum hydrocarbons that fall within the C<sub>9</sub> to C<sub>25</sub> carbon range, which includes diesel fuel.

<sup>g</sup> Residual fuels are characterized as petroleum hydrocarbons that fall within the C<sub>24</sub> to C<sub>40</sub> carbon range, which includes waste oil and asphalt.

## MEASUREMENT AND PAYMENT

The contract lump sum price paid for certification of clean imported fill material includes full compensation for furnishing all labor, materials, tools, equipment, and incidentals, and for doing all work involved in sampling, analyzing, reporting, and certifying imported fill material, complete in place, as shown on the plans, as specified in the Standard Specifications and these special provisions, and as directed by the Engineer.



# BID ITEM LIST

04-292264

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
21	150608	REMOVE CHAIN LINK FENCE	LF	2,420		
22	150620	REMOVE GATE	EA	5		
23	150662	REMOVE METAL BEAM GUARD RAILING	LF	190		
24	150722	REMOVE PAVEMENT MARKER	EA	68		
25	022325	REMOVE GRATE	EA	7		
26	150860	REMOVE BASE AND SURFACING	CY	550		
27	152430	ADJUST INLET	EA	5		
28	152440	ADJUST MANHOLE TO GRADE	EA	4		
29	152469	ADJUST UTILITY COVER TO GRADE	EA	4		
30	152604	MODIFY INLET	EA	3		
31	153103	COLD PLANE ASPHALT CONCRETE PAVEMENT	SQFT	6,670		
32	153130	REMOVE CONCRETE CURB (LF)	LF	380		
33	153218	REMOVE CONCRETE SIDEWALK	SQFT	470		
34	156590	REMOVE CRASH CUSHION (SAND FILLED)	EA	1		
35	160101	CLEARING AND GRUBBING	LS	LUMP SUM	LUMP SUM	
36	190101	ROADWAY EXCAVATION	CY	2,930		
37	022326	ROADWAY EXCAVATION (CLASS 1) (TYPE BARBARY)	CY	130		
38	022327	ROADWAY EXCAVATION (CLASS 1) (TYPE EMERYVILLE)	CY	1,320		
39	022328	HAZARDOUS METERIAL MANAGEMENT PLAN	LS	LUMP SUM	LUMP SUM	
40	022329	REMEDIATION EXCAVATION (CLASS 1) (TYPE EMERYVILLE)	CY	940		

# BID ITEM LIST

04-292264

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
61	022337	6" IRRIGATION SLEEVE (PR) 315	LF	40		
62	208738	8" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	100		
63	208740	12" CORRUGATED HIGH DENSITY POLYETHYLENE PIPE CONDUIT	LF	45		
64	260301	CLASS 3 AGGREGATE BASE	CY	2,290		
65	390132	HOT MIX ASPHALT (TYPE A)	TON	1,860		
66	022338	COLORLED HOT MIX ASPHALT (TYPE A)	TON	200		
67	394076	PLACE HOT MIX ASPHALT DIKE (TYPE E)	LF	300		
68	397005	TACK COAT	TON	2		
69	043530	STEEL SOLDIER PILE (W 10 X 12)	LF	57		
70	043531	STEEL SOLDIER PILE (W 10 X 30)	LF	158		
71	043532	STEEL SOLDIER PILE (W 10 X 45)	LF	100		
72	043533	18" DRILLED HOLE	LF	315		
73 (F)	510060	STRUCTURAL CONCRETE, RETAINING WALL	CY	41		
74 (F)	510502	MINOR CONCRETE (MINOR STRUCTURE)	CY	164		
75 (F)	511035	ARCHITECTURAL TREATMENT	SQFT	1,278		
76 (F)	511047	ANTI-GRAFFITI COATING	SQFT	1,278		
77	520101	BAR REINFORCING STEEL	LB	8,230		
78 (F)	520103	BAR REINFORCING STEEL (RETAINING WALL)	LB	9,800		
79 (F)	043534	SHOTCRETE LAGGING	CY	16		
80	560248	FURNISH SINGLE SHEET ALUMINUM SIGN (0.063"- UNFRAMED)	SQFT	120		



# BID ITEM LIST

04-292264

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
81	566011	ROADSIDE SIGN - ONE POST	EA	34		
82	022339	BCDC SIGN POST	EA	3		
83	022340	DIRECTIONAL SIGN	EA	2		
84	022341	INTERPRETIVE SIGN PEDESTAL	EA	4		
85	641101	12" PLASTIC PIPE	LF	84		
86	641107	18" PLASTIC PIPE	LF	530		
87	650026	36" REINFORCED CONCRETE PIPE	LF	5		
88	700617	DRAINAGE INLET MARKER	EA	6		
89	703233	GRATED LINE DRAIN	LF	110		
90	705307	12" ALTERNATIVE FLARED END SECTION	EA	1		
91	705311	18" ALTERNATIVE FLARED END SECTION	EA	2		
92 (F)	721810	SLOPE PAVING (CONCRETE)	CY	12		
93	727901	MINOR CONCRETE (DITCH LINING)	CY	67		
94	731502	MINOR CONCRETE (MISCELLANEOUS CONSTRUCTION)	CY	230		
95 (F)	731517	MINOR CONCRETE (GUTTER)	LF	158		
96	731656	CURB RAMP DETECTABLE WARNING SURFACE	SQFT	12		
97 (F)	750001	MISCELLANEOUS IRON AND STEEL	LB	5,108		
98	043535	MODIFY EXISTING DECK DRAIN	EA	6		
99	022342	CHAIN LINK FENCE (TYPE CL-4, BLACK VINYL-CLAD)	LF	4,180		
100	022343	CHAIN LINK FENCE (TYPE CL-6, BLACK VINYL-CLAD)	LF	4,800		

# BID ITEM LIST

04-292264

Item No.	Item Code	Item Description	Unit of Measure	Estimated Quantity	Unit Price	Item Total
101	022344	CHAIN LINK FENCE (TYPE CL-8, BLACK VINYL-CLAD)	LF	340		
102	802580	12' CHAIN LINK GATE (TYPE CL-6)	EA	1		
103	802620	16' CHAIN LINK GATE (TYPE CL-6)	EA	3		
104	022345	24' CHAIN LINK FENCE (TYPE CL-8)	EA	1		
105 (F)	839527	CABLE RAILING (MODIFIED)	LF	170		
106	839701	CONCRETE BARRIER (TYPE 60)	LF	700		
107	840501	THERMOPLASTIC TRAFFIC STRIPE	LF	8,890		
108	840519	THERMOPLASTIC CROSSWALK AND PAVEMENT MARKING	SQFT	600		
109	850101	PAVEMENT MARKER (NON-REFLECTIVE)	EA	68		
110	860090	MAINTAINING EXISTING TRAFFIC MANAGEMENT SYSTEM ELEMENTS DURING CONSTRUCTION	LS	LUMP SUM	LUMP SUM	
111	860297	SIGNAL AND LIGHTING (CITY)	LS	LUMP SUM	LUMP SUM	
112	022346	LIGHTING (BIKEWAY)	LS	LUMP SUM	LUMP SUM	
113	860797	ELECTRIC SERVICE (IRRIGATION)	LS	LUMP SUM	LUMP SUM	
114	994425	BENCH	EA	8		
115	994921	BICYCLE PARKING RACK	EA	1		
116	022348	REMOVABLE BOLLARD	EA	5		
117	BLANK					
118	071321	TEMPORARY FENCE (TYPE CL-6)	LF	2,350		
119	198010	IMPORTED BORROW (CY)	CY	7,930		
120	200102	IMPORTED TOPSOIL (CY)	CY	3,280		



## 04-292264

**TOTAL BID  
FOR ITEMS:**

**TOTAL BID  
FOR TIME:**

**TOTAL BID FOR COMPARISON (COST PLUS TIME):**

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